

Kamzolkin, V. P., Livshits, V. D., and
Kozhenov, K. T.
ON THE REDUCTION OF A CATALYST FOR THE
SYNTHESIS OF AMMONIA: EXPERIMENT IN OP-
ERATING TOWER NO. 5 AT THE BAREZNIKOVSKY
CHEMICAL COMBINE. 1963] 6p (figs omitted)
Order from OTS, SLA, etc ETC \$1.10 TT-64-10740

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1935 [v. 12] no. 7, p. 687-690.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-10740

I. Kamzolkin, V. P.
II. Livshits, V. D.
III. Kozhenov, K. T.
IV. Title: Experiment ...

Office of Technical Services

Active Manganese Dioxide From Pyrolusite,
by V. V. Kozlov, T. I. Vol'fson, 20pp.
RUSSIAN, per, Khimicheskaya Promyshlennost',
Vol 12, 1935, pp 1167-1171,
CFSTI TT-61-18936.

322, 606

Sci - Electronics &
Electrical Engineering
Mar 67

Fel'dman, Ya. A. and Nikitin, V. M.
APPLICATION OF HIGHER ALCOHOLS OBTAINED IN
SYNTHESIS OF METHANOL, II. [1961] 7p 9refs.
Order from CTS, SLA, or ETC \$1.10 TT-61-16698

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1936, v. 13, p. 922-924.

Chemistry--Organic, TT, v. 12, no. 4)

TT-61-16698

I. Fel'dman, Ya. A.
II. Nikitin, V. M.

Office of Technical Services

Yushkevich, N. F. and Toroeshnikov, N. S.
COEXISTENCE OF LIQUID AND VAPOR PHASES OF
SOLUTIONS OF NITROGEN AND CARBON MON-
OXIDE [Issledovanie o Sostoyaniyakh Zhidkoi i
Parovoi faz Rastvorov Azota i Oksidi Ugleroda]. [1961]
19p. (4 figs. omitted) 31 refs.

Order from OTS or SLA \$1.60

61-18145

Trans. of Khimicheskaya Promyshlennost' (USSR)
1936, v. 13 [no. 21] p. 1273-1283.

Another translation is available from ATS as
ATS RJ-183.

DESCRIPTORS: Nitrogen, Carbon compounds,
Monoxides, Phase studies, Chemical equilibrium,
Liquids, Vapors.

(Unannounced)

61-18145

I. Yushkevich, N. F.
II. Toroeshnikov, N. S.
III. ATS RJ-183

Office of Technical Services

Krech, E. L.
THE ACTION OF CHLORINE ON THE METASILI-
CATES OF SODIUM, MAGNESIUM, LEAD AND
NICKEL. 28 July 47, 15p. 15 refs.
Order from OTS or SLA \$1.60

61-20630

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1937, v. 14 [no. 1] p. 37-40.

DESCRIPTORS: Sodium compounds, Silicates, Mag-
nesium compounds, Lead compounds, Nickel com-
pounds, Chlorine, Chemical reactions.

(Unannounced)

61-20630

I. Krech, E. L.

Office of Technical Services

Kamzolkin, V. P. and Livshits, V. D.
THE POISONING ACTION OF OIL ON THE ACTIVITY
OF AMMONIA CATALYSTS. [1963] 13p (figs
omitted) 2refs
Order from OTS, SLA, or ETC \$1.60 TT-64-10739

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1937, v. 14, no. 17/18, p. 1225-1229.
Another trans. in Dutch is available from OTS or ETC
\$1.85 as TT-61-17947, BTWL-311, 17p.

(Chemistry--Physical, IT, v. 11, no. 11)

TT-64-10739

I. Kamzolkin, V. P.
II. Livshits, V. D.

Office of Technical Services

Shahalin, K. N., Krutlov, S. P., and Ogorin, V. L.
THE RATE OF ABSORPTION UNDER BUBBLING
CONDITIONS (Slovo: Absorbtsiya Ushovivaniy
Carbozhizh). [1961] 7p. 4 refs. [DSIR LLU] ML 2749.
Order from OTS or SLA \$1.10 61-23319

Unaltered trans. of [Khimicheskaya Promyshlennost']
(USSR) 1959, v. 16, no. 1, p. 10-14.

DESCRIPTORS: *Absorption, *Gases, *Bubbles,
*Liquids, Air, Temperature, Osmotic pressure,
Mathematical analysis, Test methods.

(Chemistry--Physical, TT, v. 6, no. 12)

61-23319

I. Shahalin, K. N.
II. Krutlov, S. P.
III. Ogorin, V. L.
IV. DSIR LLU ML 2749

182070

Office of Technical Services

Volkov, V. L. and Mazyukovich, I. V.
DEPENDENCE OF THE BASIC FACTORS IN THE
PROCESS OF THE SYNTHESIS OF AMMONIA ON THE
VOLUMETRIC VELOCITY. [1963] 18p (figs omitted)
Order from OTS, SLA, or ETC \$1.60 TT-64-10738

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1939, v. 16, no. 7, p. 31-37.

Chemistry--Physical, TT, v. 11, no. 11)

TT-64-10738

I. Volkov, V. L.
II. Mazyukovich, I. V.

Office of Technical Services

Abdullaev, Ya. A.
THE STUDY OF THE EQUILIBRIUM SYSTEMS OF
LIQUID CARBON DIOXIDE IN THE PRESENCE OF
TECHNICAL GASES (Izucheniye Ravnovesnykh Sistem
Zhidkoi Uglekislotsy v Prisutstvii Tekhnicheskikh Gazov)
J. R. Cahoon, tr. 1960 [15p] (foreign text included)
7xeta [NBS] T-8.
Order from CTS, SLA, or ETC \$1.60 TT-64-13554
Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1939, v. 16, no. 2, p. 37-40.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-13554

I. Abdullaev, Ya. A.
II. NBS-T-8
III. National Bureau of
Standards, Boulder, Colo.

Office of Technical Services

[Shtekkel'] F. A. and [Tsln] N. M.
DETERMINATION OF THE LIQUID-VAPOR EQUILIB-
RIUM DIAGRAM OF A METHANE-NITROGEN-HYDRO-
GEN SYSTEM (Opredelenie Diagramm Sostoyaniya
Zhidkost'-Par Sistem Metan-Azot-Vodorod). [1962]
19p. 5 refs.

Order from OTS or SLA \$1.60

62-18765

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1939, v. 16, no. 8, p. 24-28.

Other translations are available from SLA as R-4424,
15p. and from ATS as RJ-184.

DESCRIPTORS: Determination, Chemical equilibrium,
*Liquids, *Vapors, Separation, *Coke, *Hydrogen,
*Methanes, *Nitrogen, Mathematical analysis, In-
dustrial equipment.

(Chemistry--Physical, TT, v. 9, no. 4)

62-18765

I. Shtekkel', F. A.
II. Tsln, N. M.

Office of Technical Services

Rups, S. M.
APPARATEN VOOR HET BEWAREN EN TRANSPORTE-
REN VAN GROTE HOEVEELHEDEN VLOEIBARE
ZUURSTOF (Apparatus for the Storing and Transpor-
ting of Large Quantities of Liquid Oxygen) tr. by
G. J. M. Fritschy. 10p. MTWL: 127. (text in Dutch).
Order from OTS or ETC \$1.55 61-17732

Trans. of Khimicheskoi Promyshlennosti (USSR) 1939,
v. 16, no. 8, p. 43-44.

DESCRIPTORS: *Oxygen, Liquids, *Storage, *Trans-
formation.

61-17732

- I. Rups, S. M.
- II. MTWL-127
- III. Stichting Moelijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Kal'manovich, M. B. and Ishkin, I. P.
CONDITIONS OF SIMULTANEOUS PRODUCTION
FROM AIR OF TECHNICALLY-PURE OXYGEN AND
NITROGEN [Usloviya Odnovremennogo Polucheniya iz
Vozdukha Tekhnicheskikh Kisloroda i Azota].

[1963] 16p. 10 refs.

Order from OTS or SLA \$1.60

63-18265

Trans. of [Khimicheskaya Promyshlennost' (USSR)
1939] v. 16, no. 9, p. 12-15.

Another trans. is available from SLA as RT-2167, 11p.

DESCRIPTORS: *Oxygen, *Nitrogen, Production,
*Towers, (Chemistry), Design, Operation.

(Engineering--Chemical, TT, v. 10, no. 11)

63-18265

I. Kal'manovich, M. B.
II. Ishkin, I. P.
III. RT-2167

Office of Technical Services

Physico-Chemical Properties of Mixtures of
Ammonium Nitrate and Superphosphate, by
N. E. Pastov, A. N. Mironova.

RUSSIAN, per, Khim Prom', No 2, 1940,
pp 11-14.

CSIRO

Sci - Chem
Aug 62

211,250

Cherepkov, I. F.
FORMATION DU BROUILLARD DE H₂SO₄ LORS DE
LA PRÉPARATION DE CET ACIDE EN PRÉSENCE
DES COMPOSÉS DE L'AZOTE (Tumanoobraznaya
Kisloty v Nitrozhnom Sernokislom Protseesse) (Fog
Formation by Acid in the Nitrosylsulfuric Acid Proc-
ess) 13p.
Order from OTS, ETC or CNRS \$0.80 62-26500

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1940, v. 17, no. 5, p. 18-24.

DESCRIPTORS: *Sulfuric acid, *Nitrogen compounds,
Sulfur compounds, Dioxides, Aerosols, Experimental
data.

(Engineering--Chemical, TT, v. 10, no. 8)

62-26500

- I. Title: Nitrosylsulfuric acid
- I. Cherepkov, I. F.
- II. Centre National de la Recherche Scientifique, Paris (France)

Office of Technical Services

Kinetics of the Reaction Between SO_2 and H_2S ,
by V. S. Indintseva, G. I. Chufarov;
RUSSIAN, Tr. Khim. Prom., Vol 17, No 3,
1946, pp 24-26.
NHL 9022.00 (4313)

Sci - Tech
Oct 67

542,742

Sister, G. A. and Sokolov, P. P.
OBTAINING TECHNICAL HYDROGEN FROM COKE-
OVEN GAS AT LOW TEMPERATURES
Bertha P. Klenova, tr. 19 Sep 62, Sp 3refs [TVA]
4009.
Order from OTS, SLA, or ETC \$1.10 TT-63-24285

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1940, v. 17, no. 4/5, p. 44-45.
Another trans. is available in Dutch from OTS or
ETC \$1.55 and TT-61-17664, MTWL-46, 6p.

DESCRIPTORS: *Hydrogen, Low temperature research,
Coke, Gases, Nitrogen, Solubility, Production, Coal
gas.

(Engineering--Chemical, TT, v. 11, no. 5)

TT-63-24285

- I. Sister, G. A.
- II. Sokolov, P. P.
- III. TVA-4009
- IV. Tennessee Valley
Authority,
Wilson Dam, Ala.

Office of Technical Services

Synthesis of Acetone From Acetylene, by A. S.
Brown, O. S. Kuratova, et al.

RUSSIAN, per, Khim Prom, Vol XVIII, No 1, 1941,
pp 24-29.

SLA 61-16921

Sci

Feb 62

186, 835

Sokol'man, E. R. and Gubergits, M. Ya.
USE OF BLAST FURNACE SLAG FOR EXTENSIVE
PURIFICATION OF COKE OVEN GAS. [1961] 5p.
5 rais.
Order from OTS or SLA \$1.10 61-16823

Condensed trans. of [Khimicheskaya Promyshlennost']
(USSR) 1961 [v. 18] no. 3, p. 6-11.

DESCRIPTORS: *Slags, *Coke, Purification Blast
furnaces, Waste gases.

Experiments are reported on substitution of blast furnace slag for sawdust as a filler in the adsorption mass consisting mainly of bog iron ore and used for removal of hydrogen sulfide and nitrogen oxides from coke oven gases. Slag by itself can remove as much nitrogen oxide as bog iron ore. Basic granulated slag in about 50% by volume was found to be superior to sawdust as a filler. Its use results in elimination of about 50% nitrogen (Engineering-Chemical, TT, v. 6, no. 8) (over)

61-16823

L. Sokol'man, E. R.
M. Gubergits, M. Ya.

105110

Office of Technical Services

Stepanov, M. N. and Remnev, S. N.
EXTRACTION OF SULFURIC ACID FROM CRACKED
OIL SLUDGE. [1961] 3p.
Order from OTS or SLA \$1.10 61-16901

Condensed trans. of [Khimicheskaya Promyshlennost']
(USSR) 1941, v. 18, no. 4, p. 6-8.

DESCRIPTORS: *Sulfuric acid, Separation, *Petroleum,
Processing

By treatment of cracked oil acid sludge with super-
heated steam or hot water under atmospheric pressure,
up to 95% of the acid may be recovered. By separation
under pressure the content of organic matter in the
acid can be reduced. Concentration of the acid in
vacuum is feasible up to 80% sulfuric acid. (Author)

(Engineering-Chemical, TT, v. 6, no. 7)

61-16901

I. Stepanov, M. N.
H. Remnev, S. N.

Office of Technical Services

Berlin, L. E.
EXPERIMENTAL APPARATUS FOR CONTINUOUS AM-
MONIZATION OF SUPER[PHOSPHATE] (Ispytaniye Ap-
parata dlya Neprieryvnoi Ammonizatsii Superfosfata).
[1963] [19]p. (foreign text included).
Order from OTS or SLA \$1.60

63-18139

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1941, v. 18, no. 4, p. 10-15.

DESCRIPTORS: *Phosphates, *Sulfates, *Calcium com-
pounds, *Fertilizers, *Ammonia, *Industrial equipment.

(Agriculture, TT, v. 10, no. 11)

63-18139

I. Berlin, L. E.

Office of Technical Services

Torochevnikov, N. S. and Gurevich, Ts. N.
LIQUEFACTION OF POLYCOMPONENT GASEOUS
MIXTURES AT LOW TEMPERATURES. [1961] 11p.
15 refs.

Order from OTS or SLA \$1.10

61-16922

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1941, v. 18, no. 5, p. 7-13.

DESCRIPTORS: *Liquefied gases, *Low temperature
research, Temperature, Gases, Mixtures, Methanes,
Hydrogen, Carbon compounds, Monoxides, Oxygen,
Nitrogen, Separation, Determination.

Liquefaction of three gaseous mixtures was investi-
gated by a dynamic method. A method of analysis of
mixtures containing methane, hydrogen, carbon mon-
oxide, oxygen and nitrogen was developed, based on a
combination of absorption of oxygen, carbon monoxide
(Chemistry--Physical, TT, v. 6, no. 10) (over)

61-16922

I. Torochevnikov, N. S.
II. Gurevich, Ts. N.

61-16922

Office of Technical Services

Gonikberg, M. G. and Gurvich, I. G.
INVESTIGATION OF THE PERFORMANCE OF A
PODBIELNIAK COLUMN USING A MIXTURE OF
BENZENE AND DICHLOROETHANE. [1961] 9p.
10 refs.

Order from OTS or SLA \$1.10

61-16946

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1941 [v. 18] no. 5, p. 21-26.

DESCRIPTORS: *Benzenes, *Ethanes, *Chlorides,
Fractionation, *Distilling plants, Performance,
Mixtures.

The efficiency of the Podbielniak fractionator model
1200 was analyzed by using a mixture of benzene and
dichloroethane and a formula derived for the calculation
of columns of this type. The data obtained indicate that
under conditions of streamline flow of liquid and turbu-
lent flow of vapor, which characterize this apparatus,
(Chemistry--Physical, TT, v. 6, no. 8) (over)

61-16946

I. Gonikberg, M. G.
II. Gurvich, I. G.

185127

Office of Technical Services

Krentsel', B. A.
SOME THERMODYNAMICAL CALCULATIONS OF
THE PROCESS OF HYDROGENATION OF PHENOLS.
[1961] 5p. 9 refs. 61-18134
Order from OTS or SLA \$1.10

Condensed trans. of [Khimicheskaya Promyshlennost']
(USSR) 1941, v. 18, no. 6, p. 25-27.

DESCRIPTORS: *Phenols, Hydrogenation, Thermody-
namics, Chemical equilibrium, Thermochemistry.

Equilibrium constants for the hydrogenation of phenol to
benzene, cresol to toluene, cresol to phenol and xlenol
to xylene at temperatures from 25 to 1000°C were cal-
culated on the basis of free energies of formation of
the compounds involved reported in the literature.
(Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18134

I. Krentsel', B. A.

151781

Office of Technical Services

Chernii, L. M. and Makarenko, N. V.
FLOTATION OF SYLVINITE ORE FROM THE
SOLIKAMSK LOCALITY. [1963] [16]p. 10 refs.
Order from OTS or SLA \$1.60

63-14548

Trans. of [*Khimicheskaya Promyshlennost'*] (USSR)
1941, v. 18, no. 12, p. 8-13.

DESCRIPTORS: *Flotation (Separation), *Minerals,
Ores (Metal sources), *Potassium compounds, Chlorides,
Reagents, Alcohols, Tests.

These experiments demonstrated that the flotation of an ore containing 28% KCl and 1.2% insoluble residue (clay) produces a concentrate with 90% KCl. The extraction is 90% KCl, without allowing for the losses due to mechanical causes. The expensive flotation agent, acidol, can be successively replaced by the petroleum soap. The exact consumption figures for reagents were (Earth Sciences--Mineralogy, TT, v. 10, no. 9) (over)

63-14548

1. Title: Sylvinite
- I. Chernii, L. M.
- II. Makarenko, N. V.

Office of Technical Services

Pokrovskii, V. A.
HYDRATION OF ETHYLENE TO ETHANOL AND OF
PROPENE TO ISOPROPANOL. [1961] 6p. 115 refs.
Order from OTS or SLA \$1.10 61-16929

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1941, v. 18, no. 14, p. 40-43.

DESCRIPTORS: Hydrates, *Ethylenes, *Ethanol,
*Propenes, *Propanols, Chemical reactions, Sulfuric
acid, Catalysts, Alcohols.

A non-critical review is given of the periodical
literature through 1940 dealing with preparation of
ethyl and isopropyl alcohols by hydration of the corre-
sponding olefins. The methods of carrying out this
reaction, as discussed in this survey, comprise treat-
ment with sulfuric acid and conversion in the presence
of solid catalysts. (Author)
(Chemistry--Organic, TT. v. 6, no. 9)

61-16929

I. Pokrovskii, V. A.

105406

Office of Technical Services

Malkov, M. P., Kravets, V. P. and Aron, E. I.
METHOD OF CALCULATION OF THE BASIC PROC-
ESSES INVOLVED IN SEPARATION OF HYDROCAR-
BON GASES, I. [1961] 8p. 4 refs.
Order from OTS or SLA \$1.10

61-16931

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1961, v. 18, no. 17, p. 7-19.

DESCRIPTORS: *Hydrocarbons, Separation, Gases,
*Refrigeration systems, Design, Fractionation,
Analysis.

Methods are outlined of calculation of material balance
in the design of refrigeration units for fractional
countercurrent condensation of hydrocarbon gases. The
methods are illustrated by examples of gas mixtures
containing methane, ethane, ethylene, propene and C₄
hydrocarbons. (Author)

(Engineering--Chemical, TT, v. 6, no. 7)

61-16931

I. Malkov, M. P.
II. Kravets, V. P.
III. Aron, E. I.

101155

Office of Technical Services

Bel'yan, S. V. THERMODYNAMICAL CHARACTERISTICS OF BEN- ZENE: [1961] 9p. 11 refs. 61-16932 Order from OIS or SLA \$1.10 Trans. of [Razumicheskaya Promyshlennost'] (USSR) 1941. v. 18, no. 17, p. 12-18. DESCRIPTORS: *Benzenes. Thermodynamics. Thermochemistry. For the calculation of chemical, technological and ther- mal processes involving benzene or benzene-containing mixtures, thermodynamical data characterizing benzene are necessary. These data, as reported in the present article, are based on correlation, analysis and devel- opment of all existing theoretical and experimental data on benzene, and are suitable for practical employment. (Author) (Chemistry--Organic, TT, v. 6, no. 7)	61-16932 L. Bel'yan, S. V. 181156 Office of Technical Services
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Malkov, M. P., Kravets, V. R. and Aron, E. I.
METHOD OF CALCULATION OF THE BASIC PROC-
ESSES INVOLVED IN SEPARATION OF HYDROCAR-
BON GASES, II. [1961] 10p. 6 refs.
Order from OTS or SLA \$1.10

61-16933

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1941, v. 13, no. 16, p. 9-15.

DESCRIPTORS: *Hydrocarbons, Gases, Separation,
Fractionation, Evaporators, *Towers (Chemistry),
Analysis.

A method is outlined for calculation of condensation
with simultaneous evaporation and examples of the use
of the method are given. With the aid of known methods
of calculation of absorption and evaporation as separate
processes a method of calculation of a combined
absorption-evaporation column was developed and
applied to calculation of a condensation-evaporation
column by analogy. (Author) (See also 61-16931)

61-16933

I. Malkov, M. P.
II. Kravets, V. R.
III. Aron, E. I.

151751

Office of Technical Services
(Engineering--Chemical,
TT, v. 6, no. 7)

Meotvilova, N. N. S'YARENE, ITS PREPARATION AND APPLICATION. [1951] 17p. 69 refs. Order from OTS or SLA \$1.60	61-16924 1. Meotvilova, N. N.
Trans. 16 [Zhurnal Khimicheskoy Promyshlennosti] (USSR) 1941 [v. 16] no. 21, p. 15-23.	15115
DESCRIPTORS: *Styrenes, Synthesis, Chemical properties.	Office of Technical Services
(Chemistry--Organic, TT, v. 6, no. 7)	

Rapoport, I. A.
EXTRACTION OF UKRAINIAN BROWN COALS.
[1961] Sp. 9 refs.
Order from OTS or SLA \$1.10

61-18157

Trans. of [Khimicheskaya Promyshlennost'] (USSR)
1941, v. 18, no. 22, p. 8-10.

DESCRIPTORS: *Coal, Processing, Mining engineering.

A discussion of large scale extraction of brown coals with various solvents is given and some experimental data reported. Dichloroethane is an advantageous solvent because of its solvent potency and also because its specific gravity, which is close to that of the brown coal, insures intimate contact of the solvent with the charge. A vertical extractor of a design shown in the article may be used with this solvent and as much as 97.6% of incan wax present in the charge can be extracted. (Engineering, TT, v. 6, no. 9) (over)

61-18157

I. Rapoport, I. A.

105424

Office of Technical Services

A New Highly Effective Thermal Insulator, by
N. N. Otvagin, L. A. Lukoshkina, S. D.
Svenchik, 4 pp.

RUSSIAN, per, Khim Prom, No 1/2, 1944, pp 38-39.

SLA 60-18497

203,224

Sci

Jun 62

Use of Oxygen in the Burning of Sulfur-Containing
Raw Materials in the Manufacture of Sulfuric
Acid, by K. M. Malin, 12 pp.

RUSSIAN, per, Khim Prom, No 5, 1944, pp 10-12.

26,6 90

Sci Trans Center
NT-2413

Scientific - Chemistry

Sep 55 CTS/DEK

Planovskii, A. N. and Kagan, S. Z.
BENZEENSULFONZUURSYNTHESE VOLGENS EEN
CONTINUE METHODE (Continuous Process for the
Production of Benzene-sulfonic Acid) tr. by
G. J. M. Fritschy. 18p. 10 refs. MTWL: 2.
(text in Dutch). 61-17701
Order from OTS or ETC \$1.85

Trans. of Khimicheskaya Promyshlennost' (USSR)
1944, no. 9, p. 5-10.

DESCRIPTORS: *Benzenes, *Sulfonic acids, Phenyl
radicals, Processing, Sulfuric acids, Anhydrides.

61-17701

- I. Planovskii, A. N.
- II. Kagan, S. Z.
- III. MTWL-2
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Andrianov, K. A.
ORGANOSILICON COMPOUNDS AS MATERIALS FOR
SYNTHESIS OF HIGH-POLYMER SUBSTANCES AND
LUBRICANTS. [1961] 6p. 16 refs.
Order from OTS or SLA \$1.10

61-18240

Condensed trans. of *Khimicheskaya Promyshlennost'*
(USSR) 1945, no. 2, p. 1-5.

DESCRIPTORS: *Polymers, Lubricants, Synthesis,
*Silicon compounds, Films, Silicones, Silanes.

Research is summarized dealing with organosilicon
compounds suitable for the preparation of resins, film-
forming substances, lubricants and insulating fluids.
These compounds are characterized by the presence of
a silane group, in consequence of which they show a
tendency to undergo condensation. Alkyl and aryl silane
chlorides are hydrolyzed by water and the products of
hydrolysis are simultaneously condensed to high molec-
ular resins. Organosilicon films possess high elec-
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18240

I. Andrianov, K. A.

II-64-30135

Office of Technical Services

PB-

61-18240

Kardashev, D. A., Leznov, N. S., and
Nuzhdina, V. P.

NEW RESINS FROM ALLYL ESTERS OF DIBASIC
ACIDS. [1961] 4p. 14 refs.
Order from OTS or SLA \$1.10

61-18237

Trans. of Khimicheskaya Promyshlennost' (USSR) 1945,
no. 2, p. 5-6.

DESCRIPTORS: *Resins, *Allyl radicals, *Esters,
Polymerization, Fumaric acids, Benzoyl radicals,
Peroxides, *Dibasic acids.

A preliminary communication is made on the prepara-
tion of diallyl esters of 8 dibasic acids and their poly-
merization in the presence of benzoyl peroxide. The
data reported are held to offer a new case of tridi-
mensional polymerization. Copolymerization with
methyl methacrylate is also possible. The rate of poly-
merization can be modified by the use of conventional
(Materials--Plastics, TT, v. 6, no. 8) (over)

61-18237

I. Kardashev, D. A.
II. Leznov, N. S.
III. Nuzhdina, V. P.

100142

Office of Technical Services

Determination of Melamine in a Technical
Product, by Gh. V. Zavarov, 2 pp.

RUSSIAN, per, Khim Prom, No 2, 1945, p 21.

Sci Mus Lib No 53/0320

Scientific - Chemistry

Jun 53 CTS

2257

Ginzburg, E. N.
SOME PHYSICAL COEFFICIENTS OF SUPERPHOS-
PHATE RIPENING IN A CHAMBER. [1963] 11p.
(figs. omitted).

Order from OTS or SLA \$1.60

63-14570

Trans. of Khimicheskaya Prom[yshlennost'] (USSR)
1945, no. 3, p. 8-9.

DESCRIPTORS: *Phosphates, *Calcium compounds,
*Sulfates, *Shear stresses, *Fertilizers, Solids,
Physical properties.

(Agriculture, TT, v. 10, no. 6)

63-14570

I. Ginzburg, E. N.

Office of Technical Services

Losev, I. P., Danilovich, A. I. and Kon, A. V.
PREPARATION OF ACIDS BY OXIDATION OF KER-
OSENE. [1961] 6p. 2 refs.
Order from OTS or SLA \$1.10

61-18238

Trans. of Khimicheskaya Promyshlennost' (USSR) 1945,
no. 3, p. 11-14.

DESCRIPTORS: *Kerosene, Oxidation, Carboxylic
acids, *Acids, Synthesis, Hydroxides.

(Chemistry--Organic, TT, v. 6, no. 9)

61-18238

I. Losev, I. P.
II. Danilovich, A. I.
III. Kon, A. V.

5428

Office of Technical Services

Lel'chuk, S. I.
CATALYTIC DEHYDROGENATION OF ALCOHOLS
FORMING ESTERS. [1961] 5p. 30 refs.
Order from OTS or SLA \$1.10 61-18229

Condensed trans. of Khimicheskaya Promyshlennost'
(USSR) 1945, no. 4, p. 7-9.

DESCRIPTORS: *Alcohols, Dehydrogenation, Esters,
Synthesis, Acetates, *Ethanol, Catalysts.

Research showed that finely dispersed copper used as a
catalyst for this reaction brings about formation of
ethyl acetate. Some principles of preparation of pre-
cipitated and alloyed catalysts for this reaction have
been determined. The optimal conditions of dehydrogen-
ation of ethyl alcohol involve a temperature of 275-285°
and a rate of flow of alcohol of 300-400 ml per liter
catalyst space per hour. The experimental results gen-
erally apply to homologs of ethyl alcohol. When an
equimolecular mixture of two alcohols is treated the
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18229

I. Lel'chuk, S. I.

151812

Office of Technical Services

Karapet'yants, M. Kh.
TEMPERATURE DEPENDENCE OF THE HEAT OF
EVAPORATION. [1961] 4p. 1 ref.
Order from OTS or SLA \$1.10 61-18230

Trans. of Khimicheskaya Promyshlennost' (USSR)
1945, no. 6, p. 21-22.

DESCRIPTORS: *Hydrocarbons, Heat, Evaporation,
Vaporization, Temperature.

A method of calculation of the heat of evaporation of various substances is suggested which can also be used in a graphical form. It requires a knowledge of the heat of evaporation of a reference substance at a temperature as far from its critical temperature as that of the substance under investigation from its own critical temperature. In addition, the equation given involves knowledge of a constant. For paraffin hydrocarbons an equation is given for the value of this constant as a function (Physico-Thermodynamics, TT, v. 6, no. 8) (over)

61-18230

I. Karapet'yants, M. Kh.

1.0141

Office of Technical Services

(FDD 19572)

Methods of Developing the USSR Chemical Industry
and the Role of the Urals in It, by A. G. Kasatkin,
21 pp.

RUSSIAN, no per, Khim P. on, No 8, Moscow, Aug 1945.

CIA/FDD/U-5242

USSR

Econ - Chemical industry

8955

Drying Air With Inorganic Adsorbents, by ~~SECRET~~
P. Z. Burbo.

RUSSIAN, per, Khim Pron, No 11, 1945, pp 11-14.
CIA D 372820

Sci Tr Center
RT-2979

Sci - Chemistry
Jan 1956/CTS No 77

30,544

Freidlin, L. Kh., Balanika, A. A., Fridman, G. A.,
and Lebedeva, A. E.

HYDROLYSE OF CHLOROBENZENE WITH WATER
VAPOR IN PRESENCE OF SILICA-GEL CATALYSTS.
[1963] 15p 5refs

Order from OTS or SLA \$1.60

63-18677

Trans. of Khimicheskaya Prom[yslennost'] (USSR)
1945 [no. 12, p. 8-11].

DESCRIPTORS: *Benzenes, *Chlorides, *Hydrolysis,
Silicon compounds, Gels, Dioxides, Catalysts,
Additives.

(Chemistry--Organic, TT, v. 10, no. 10)

63-18677

1. Title: Phenyl chloride
- I. Freidlin, L. Kh.
- II. Balanika, A. A.
- III. Fridman, G. A.
- IV. Lebedeva, A. E.

Office of Technical Services

Khim Prom 1946, No 9, 8-9.

Basic Principles Underlying the Construction of a Tank
for Continuous Production of Superphosphate

E. N. Ginzburg (Chief of Exper Const Bur, Sci Inst for
Fertilizers and Insectofungicides)

(Wilson Dam 2566)

61-13016

Levin, A. I. and Fabrikant, T. L.
THE RATE OF POLYMERIZATION OF VINYL
CHLORIDE IN EMULSION: [1961] 13p. 3 refs.
[DSIR LLU] M. 1671
Order from OTS or SLA \$1.60

61-13016

Trans. of Khimicheskaya Promyshlennost' (USSR)
1947, no. 2, p. 16-18.

DESCRIPTORS: *Vinyl chlorides, *Polymerization,
*Polymers, Reaction kinetics.

I. Levin, A. I.
II. Fabrikant, T. L.
III. DSIR LLU M. 1671

161658

Office of Technical Services

(Materials--Plastics, TT, v. 6, no. 1)

Solubility of Sulfur-Containing Resins in Oils, by
A. V. Andreeva, N. P. Pitelina.

RUSSIAN, per, Khim Prom, No 19-21, 1947, pp 51-53.

ATS RJ-144

621 - Chem
Apr 60

114,517

The Thermal Conductivity of Organic Heat Transfer
Media of High Boiling Point, by V. V. Kerkhentsev,
M. B. Vargartik, 7 pp.

RUSSIAN, per, Khim Prom, No 3, 1950, pp 82-84.

ABRE Lib Tr 809

Sci - Phys

May 59

86,162

Sokol'skii, A. V.
MOYENS POUR RÉDUIRE LE DANGER DES GAZ DE
NITROSE REJETÉS PAR LES USINES D'ACIDE
SULFURIQUE (Means for Reducing the Danger of
Nitrous Gases from Sulfuric-Acid Factories). 12p.
2 refs. CNRS-VI 186.
Order from OIS, ETC or CNRS \$0.80 TT-62-28425

Trans. in French of Khimicheskaya Promyshlennost'
SSSR, 1954, no. 2, p. 26-28.

DESCRIPTORS: Sulfuric acid, Production, Waste gases,
Nitrogen compounds, Oxides, Absorption.

(Engineering--Chemical, TT, v. 11, no. 6)

TT-62-28425

- I. Sokol'skii, A. V.,
- II. CNRS-VI 186
- III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

S-5271

(NY-2798).

Coefficients of Mass Transformation on Horizontal
Perforated Plates at Various Gas Speeds, by I. N.
Kas'minykh, L. S. Aksel'rod, Zh. A. Koval', A. I.
Rodionov, 12 pp.

RUSSIAN, per, Khim Prom, No 2, Mar 1954, pp 86-89.

JPRS-L-937-N

Sci - Chem - Phys Chem - Chem Engr
Sep 59

96,280

Krapukhin, B.A.
UTILISATION DE LA CHALEUR LORS DE LA PRO-
DUCTION DE L'ACIDE SULFURIQUE (Conservation
of Heat in Sulfuric Acid Manufacture). 13p. 2refs.
CNRS-VI 185.
Order from CTS, ETC or CNRS \$0.80 TT-62-28055

Trans. in French of 'Khimicheskaya Promyshlennost'
(USSR) 1954, no. 3, p. 135-139.

Descriptors: *Sulfuric acid, Production, *Heat ex-
changers, Air, *Heaters, Pyrites, Combustion.

(Engineering--Chemical, TT, v. 11, no. 6)

TT-62-28055

I. Krapukhin, B.A.
II. CNRS-VI 185
III. Centre National de la Recher-
che Scientifique, Paris

Office of Technical Services
European Translations Centre

Oil-Extended Rubbers, by G. D. Vigdorovich, 13 pp.

RUSSIAN, per, Khim Prom, No 4, Jun 1954, Encl to
AFOIN-1A1, IR-284-55. CIA D 222911.

AF 662942

USSR

Sci - Chemistry, rubbers

26,162

Borisov, V. M.
EFFECT OF ALKALI AND SODA ON THE FLOTA-
TION PROPERTIES OF NON-SULFIDE MINERALS.
[1963] 11p. (figs. omitted) 9 refs.
Order from OTS or SLA \$1.60

63-16259

Trans. of Khimicheskaya Promyshlennost' (USSR)
1954, no. 4, p. 213-216.

DESCRIPTORS: *Minerals, *Flotation (Separation),
Reagents, Sodium compounds, Carbonates, Salts,
Surface properties, Hydrogen ion concentration.

(Earth Sciences--Mineralogy, TT, v. 10, no. 8)

63-16259

I. Borisov, V. M.

Office of Technical Services

Results of Disseminating Experience Among Tire
Enterprises, by N. V. Delektorskiy

RUSSIAN, per, Khim Prom, Jul/Aug 1954, pp 52-54.

AF669586(D243391)
CIA/FDD/Sum 522

USSR
Economic
May 55 CTS

23,540

(FDD 24775)

Sergy Vasil'yevich Lebedev and the Establishment of the
Synthetic Rubber Industry in the USSR, by K. B.
Piotorskiy, P. I. Zakharchenko, 15 pp.

RUSSIAN, irreg publ, Khim Prom, No 5, Moscow, Jul/Aug
1954, pp 257-261.

CIA/FDD/U-7120

26,548

USSR

Sci - Chemistry, synthetic rubber

Jul 55

Borisov, V. M.
METHOD OF THE PHYSICO-CHEMICAL EVALUA-
TION OF THE REAGENT INTERACTION WITH THE
MINERAL GRAIN SURFACES DURING FLOTATION.
[1963] 9p. (figs. omitted) 10 refs.
Order from OTS or SLA \$1.10

63-16258

Trans. of Khimicheskaya Promyshlennost' (USSR)
1954, no. 6, p. 336-338.

DESCRIPTORS: Flotation (Separation), *Grain struc-
tures (Metallurgy), *Minerals, *Reagents, Chemical
analysis, Surfaces, Fertilizers.

(Chemistry--Physical, TT, v. 10, no. 6)

63-16258

I. Borisov, V. M.

Office of Technical Services

Automobile Tire Tubes From Synthetic Rubbers, by
Z. Ye. Bazun, 9 pp.

RUSSIAN, per, Khim Prom, No 7, 1954, pp 412-415.
Encl to IR-358-55, AFOIN-IAI, Jun 1955.
CIA D-243318

AF 669589

28, 007

USSR
Economic -

Corrosion of Steels by Hot Alkaline Solutions
Under Pressure, by K. L. Tseitlin, 7 pp.

RUSSIAN, per, Khim Prom, No 7, 1954, pp 438-440.

AEC Tr 3302

Sci - Chem

Sep 58

73, 781

Friction and Heat Exchange in a Turbulent Flow,
by G. P. Piterukikh, 15 pp.

RUSSIAN, per, Khim Prom, No 8, 1954, pp 480-485.

Morris D. Friedman P-131
\$7.50

Sci - Physics
Mar 59

84,391

Industrial-Branch Conference of the Workers in Superphosphate and Sulfuric Acid Industry; An Appeal of the Members of the All-Union Industrial Branch Conference of the Workers in the Superphosphate and Sulfuric Acid Industry to all Workers in the Industry of Phosphorous Fertilizers and Sulfuric Acid, 8 pp.

RUSSIAN, per, Khim Prom, No 8, 1954, pp 497-498; 449-451; Encl to IR-1022-55, AFOIN-IAI, 15 Aug 1955. CIA D-311962.

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Economic -

28, 300

AF 686868

Nov 55 CTS

(DC-1747)

Acetylene Generator GVR-1.25M, 3 pp. UNCLASSIFIED

RUSSIAN, no par, Khim Prom, No 8, Moscow, Dec 1954,
pp 502, 503.

US JPRS/DC-L-261

Sci - Chemistry

63,425

R
Influence of the Ingredients of Rubber on Its
Static Friction in Sliding, by S. B. Ratner,
V. D. Sokol'skiy, 34 pp.

RUSSIAN, no par, ^{SK1ya} Khim Prom, No 1, 1955, pp 27-34.

Sci Tr Center RT 3585

Scientific - Chemistry 36,177

Influence of Increased Hygroscopicity of Viscoso
Cord Upon the Properties of Motor Type Covers, by
R. Uzina.

RUSSIAN, per, Khim Promyshlennost, No 1, 1955,
pp 34-39.

UDEM GB 57 No 497

58,534

Sci - Chemistry
Feb 58

S-2945

Computations of Plate-Column Apparatus, by A. N.
Planovskiy, A. C. Kasatkin.

RUSSIAN, per, Khim ~~Press~~ Prom, 1955, pp 152-156.

14/11/57

(DC-1102)

A Rise in the Productivity and the Automatization of
the Operations of an Acetylene Filling Station, by
A. N. Shashkov, I. I. Strizhivskiy, V. F. Ol'kovskiy,
N. N. Matveyev, 14 pp. UNCLASSIFIED

RUSSIAN, eight-x-yr per, Khim Prom, No 4, Moscow,
Jun 1955, pp 222-227.

US JPRS/DC-L-229

Sci - Chemistry

63,437

Improvement of the Operation of a Nephelite
Coagulant Plant, by N. K. Sarakuz.
RUSSIAN, per, Khimicheskaya Promyshlennost,
1955, pp 361-363.
NTC 69-10938-07A

Sci-Chem
May 69

382,509

(FDD 26491)

Development of the Chemical Industry in Rumania,
by N. Florescu, 37 pp.

RUSSIAN, bino par, Khim Prom, No 5, Moscow,
Jul/Aug 1955, pp 46-56.

CIA/FDD/U-7781

ESur - Rumania

Econ - Chemical industry

31,836

Hydrocarbons of the Diarylmethane Series as High
Temperature Heat Carriers, 4 pp.

RUSSIAN, per, Khim Prom, No 7, 1955, pp 42, 43,
Encl To IR-1306-57, AFOIN-1A1.

AID/Mar 57

Sci - Chemistry

50, 834

Aug 57

Industrial Method for the Production of Heavy
Nitrogen Isotope Concentrates, by S. I. Babkov,
N. N. Zhavoronkov.

RUSSIAN, no par, Khim Prom, No 7, 1955, pp 388-392.

Assoc Tech Sv
RJ-395

Sci - Chemistry

36,946
\$12.75

Aug 1956

Origin of Strain in the Formation of Varnish
(Lacquer) Films, by V. A. Kargin et al.

RUSSIAN, per, Khim Prom, X No 7, 1955,
pp 392-397.

Co-Op Trans Sch Tr 327
22.8s.

Sci - Chemistry
Apr 57 CIB/dex

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**Urgent Problems in the Production of Chemicals
for Plant Protection, by M. I. Rokhlin**

**RUSSIAN, see per, Khran Press, No 8, Dec 1955,
pp 1-5. CIA 9006531**

USDA

127-460
40,110

Sci - Biology

USSR

Economic - Agriculture

Oct 56 OTS

Amelin, A. G., Baranova, A. I. and Vasil'ev, B. T.
FABRICATION D'ACIDE SULFURIQUE PAR LE PRO-
CEDE DE CATALYSE HUMIDE (Sulfuric Acid Produc-
tion by the Wet-Catalyst Method). 15p. 16 refs.
Order from OTS, ETC or CNRS \$0.80 62-26996

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1955 [no. 8] p. 453-457.

DESCRIPTORS: Sulfuric acid, Production, Hydrogen
compounds, Sulfides, Combustion, Air, Catalysis,
Water vapor.

(Engineering-Chemical, TT, v. 10, no. 8)

62-26996

- I. Amelin, A. G.
- II. Baranova, A. I.
- III. Vasil'ev, B. T.
- IV. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

Butadiene From n-Butane and n-Butylenes, by O. B.
Litvin, I. L. Fridshteyn, 27 pp.

RUSSIAN, no per, Khimicheskaya Promyshlennost',
No 8, 1955, pp 38, 486 - 46 (494), Encl to IR 1913-56,
AFOIIN-1A1

AF 1071260

Sci - Chemistry
Feb 1957 CRS

44,067